CyberShield NCDS™ Training System

Live training for cyber-security professionals

Elbit Systems
Land and C4I

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Key Features

- High-fidelity virtual defense training and simulation environment
- Simulation of multiple automatic and repeatable cyber attack scenarios
- Simulation of diverse networks from small-medium businesses up to large-scale enterprise / government networks
- Virtualization and emulation of any network device and protocol
  - Network appliances
  - SCADA controllers
  - Servers and applications
- Advanced network traffic generator engine
  - Supports a wide range of protocols and applications
  - Simulates attacks and normal user behavior
- Real-time training on multiple security systems and tools
- Blue team/Red team training divisions
- Fully scalable and modular in design
- Skill assessment analysis and debriefing in AAR stations
- Cost efficient with maximum use of COTS hardware and software
- Ability to integrate any third party or customer application and hardware
- Option for delivery as a full turnkey implementation or in hourly increments as a service
- Advanced training, auditing and analysis tools

Training for a broad range of cyber security personnel

- Government cyber defense
- Cyber command
- Military cyber defense
- IT and SCADA security workforce
  - Energy, gas, electricity and water utilities
  - Telecommunication service providers

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Live training for cyber-security professionals

A skilled cyber-security workforce is a key element of government efforts to combat the serious threat to national security posed by cyber attacks, including cyber-espionage, cyber-crime and cyber-warfare. To meet this need, Elbit Systems, a leader in the defense industry, has introduced its comprehensive CyberShield NCDS™ Training System. The training system offers a cyber defense virtual training environment designed to train cyber-security professionals and decision makers in securing national military and civilian networks against all forms of cyber attacks. The system is an integral component of Elbit Systems' comprehensive cyber defense solutions.

Planning Screen

Running Screen

Review Screen

Summary Screen

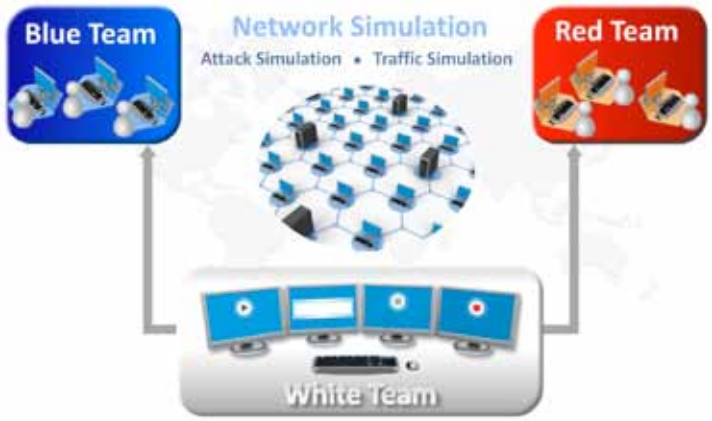
Simulated security attacks, maximizing the awareness and improving the skills of the cyber workforce

Conducted in a generic and secured environment, the CyberShield NCDS™ Training System offers a scalable and realistic training experience where trainees are exposed to various attack scenarios and security breaches to improve their hands-on skills. The CyberShield NCDS™ Training System can simulate large-scale virtual networks (IT, SCADA, MANET, tactical communications, etc.) and attacks based on previous real-world incidents, including SCADA attack scenarios. It can also pinpoint system vulnerabilities and help security professionals develop countermeasures and improved protocols for dealing with cyber attacks on critical network systems – such as communications networks and utility grids.

Fully customizable simulations of real-world applications

The CyberShield NCDS™ Training System is supported by proprietary architecture and applications, advanced software and large-scale COTS hardware. Its semi-automatic (manned and unmanned) environment utilizes live network and traffic simulation to train users in real-time. Easily adapted to the customer's actual work environment, the CyberShield NCDS™Training System offers a range of security tools and systems. These include risk assessment tools, monitoring systems, security information and event management (SIEM) systems, forensic tools and supporting databases, as well as other network, security and cyber components.

Performance evaluation and debriefing

The CyberShield NCDS™ Training System also features an advanced training management system, where the training manager defines, builds, deploys and runs the training methodology and scenario for each training session. The trainees' activities are tracked and recorded – along with all logs from the network components and security information events – to be fully analyzed during a debriefing and after action review (AAR).

The CyberShield NCDS™ Training System is available with a choice of implementation options. The system can be implemented as a comprehensive turnkey solution – backed with unique cyber training methodology – or delivered on a fee-for-service basis by Elbit Systems.